

1 **IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

2 Serial No. .... 10/627,281  
3 Filing Date ..... 7/25/2003  
4 Confirmation No. .... 4249  
5 Inventorship ..... Anne Kirsten Eisentraeger  
6 Applicant ..... Microsoft Corporation  
Group Art Unit ..... 2131  
7 Examiner .....  
8 Attorney's Docket No. .... MS1-1275US  
9 Title: Improved Weil and Tate Pairing Techniques Using Parabolas

10 **INFORMATION DISCLOSURE STATEMENT**

11 *References -- See Attached Form PTO-1449*

12 **REMARKS**

13 The citations listed are submitted in compliance with the duty of disclosure  
14 defined in 37 CFR §1.56. The Examiner is requested to make these citations of  
15 official record in this application.

16 Respectfully Submitted,

17 Date: 1/17/2006

18 By: David M. Huntley  
19 David M. Huntley  
20 Reg. No. 40309  
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# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT** ( Not for submission under 37 CFR 1.99)

Application Number	10627281
Filing Date	2003-07-25
First Named Inventor	Anne Kirsten Eisentraeger
Art Unit	
Examiner Name	
Attorney Docket Number	MS1-1275US

## **U.S. PATENTS**

Examiner Initial*	Cite No	Patent Number	Kind Code <sup>1</sup>	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1					

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## **U.S. PATENT APPLICATION PUBLICATIONS**

Examiner Initial*	Cite No	Publication Number	Kind Code <sup>1</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	20030081785	A1	2003-05-01	Boneh, et al.	
	2	20030182554	A1	2003-09-25	Gentry, et al.	

If you wish to add additional U.S. Published Application citation information please click the Add button.

## **FOREIGN PATENT DOCUMENTS**

Examiner Initial*	Cite No	Foreign Document Number <sup>3</sup>	Country Code <sup>2</sup>	Kind Code <sup>4</sup>	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
	1							<input type="checkbox"/>

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## **NON-PATENT LITERATURE DOCUMENTS**

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
( Not for submission under 37 CFR 1.99)

Application Number	10627281		
Filing Date	2003-07-25		
First Named Inventor	Anne Kirsten Eisentraeger		
Art Unit			
Examiner Name			
Attorney Docket Number	MS1-1275US		

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>5</sup>
	1	Frey, et al., "The Tate Pairing and the Discrete Logarithm Applied to Elliptic Curve Cryptosystems," IEEE Transactions on Information Theory, Vol. 45, No. 5, July 1999, pp. 1717-1719.	<input type="checkbox"/>
	2	Manoharmayum, "On the Modularity of Certain GL2 (F7) Galois Representations," Mathematical Research Letters 8, pp. 703-712 (2001).	<input type="checkbox"/>

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**EXAMINER SIGNATURE**

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> See Kind Codes of USPTO Patent Documents at [www.USPTO.GOV](http://www.USPTO.GOV) or MPEP 901.04. <sup>2</sup> Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>3</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>4</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>5</sup> Applicant is to place a check mark here if English language translation is attached.

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STATEMENT BY APPLICANT**  
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Art Unit	
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Attorney Docket Number	MS1-1275US

**CERTIFICATION STATEMENT**

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☒ None

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**